

FORM PTO-1449

ATTY. DOCKET NO.
0609.4560003/KRM/DJNAPPLICATION NO.
10/623,813FIRST SUPPLEMENTAL INFORMATION DISCLOSURE
STATEMENTFIRST NAMED INVENTOR
Li et al.FILING DATE
July 22, 2003ART UNIT
1645 1643

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No


OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

amb	AR	20	Okano, M., et al., "Dnmt2 is not required for de novo and maintenance methylation of viral DNA in embryonic stem cells," <i>Nucl. Acids Res.</i> 26:2536-2540, Oxford University Press (June 1998)
amb	AS	20	Pradhan, S., et al., "Baculovirus-mediated expression and characterization of the full-length murine DNA methyltransferase," <i>Nucl. Acids Res.</i> 25:4666-4673, Oxford University Press (November 1997)
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 <p>FORM PTO-1449</p> <p><u>INFORMATION DISCLOSURE STATEMENT</u></p>	ATTY. DOCKET NO. 0609.4560003/JAG/KRM/DJN	APPLICATION NO. 10/623,813
	APPLICANT <i>Li et al.</i>	
	FILING DATE July 22, 2003	GROUP <i>To Be Assigned 1643</i>

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
<i>amb</i>	AA1	5,578,716	11/26/1996	<i>Szyf et al.</i>			12/01/1993
	AB1	6,183,968 B1	02/06/2001	<i>Bandman et al.</i>			03/25/1999
	AC1	6,492,168 B1	12/10/2002	<i>Kladde et al.</i>			04/22/1999
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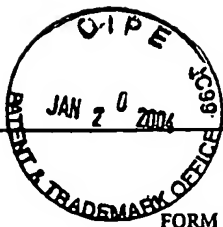
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<i>amb</i>	AL1	WO 92/06985	04/30/1992	WIPO			Yes No
<i>amb</i>	AM1	WO 95/14772	06/01/1995	WIPO			Yes X No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>amb</i>	AR	1	Aoki, A., <i>et al.</i> , "Enzymatic properties of <i>de novo</i> -type mouse DNA (cytosine-5) methyltransferases," <i>Nucl. Acids Res.</i> 29:3506-3512, Oxford University Press (September 2001)
	AS	1	Ariel, M., <i>et al.</i> , "Gamete-specific methylation correlates with imprinting of the murine <i>Xist</i> gene," <i>Nat. Genet.</i> 9:312-315, Nature Publishing Group (1995)
	AT	1	Ausubel, F.M., <i>et al.</i> , eds., "Expression of Proteins in Insect Cells Using Baculoviral Vectors," in <i>Current Protocols in Molecular Biology</i> , Greene Publishing Associates and Wiley-Interscience, New York, NY, pp. 16.8.1-16.11.7 (1990)
EXAMINER <i>amb Harris</i>	DATE CONSIDERED <i>10/13/2006</i>		

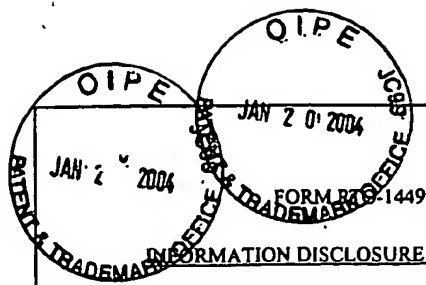
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	AR	2	Bachman, K.E., <i>et al.</i> , "Dnmt3a and Dnmt3b Are Transcriptional Repressors That Exhibit Unique Localization Properties to Heterochromatin," <i>J. Biol. Chem.</i> 276:32282-32287, The American Society for Biochemistry and Molecular Biology, Inc. (August 2001)				
	AS	2	Baylin, S.B., <i>et al.</i> , "Alterations in DNA Methylation: A Fundamental Aspect of Neoplasia," <i>Adv. Cancer Res.</i> 72:141-196, Academic Press (February 1998)				
	AT	2	Bestor, T., <i>et al.</i> , "Cloning and Sequencing of a cDNA Encoding DNA Methyltransferase of Mouse Cells," <i>J. Mol. Biol.</i> 203:971-983, Academic Press (1988)				
EXAMINER		DATE CONSIDERED 10/13/2006					
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amb	AR	2	Bestor, T.H., "Activation of mammalian DNA methyltransferase by cleavage of a Zn binding regulatory domain," <i>EMBO J.</i> 11:2611-2617, Oxford University Press (1992)
J	AS	2	Brandeis, M., et al., "The ontogeny of allele-specific methylation associated with imprinted genes in the mouse," <i>EMBO J.</i> 12:3669-3677, Oxford University Press (1993)
V	AT	2	Brockdorff, N., "Convergent themes in X chromosome inactivation and autosomal imprinting," in <i>Genomic Imprinting</i> , Reik, W., and Surani, A., eds., Oxford University Press, Oxford, UK, pp. 191-210 (December 1997)

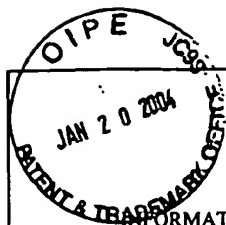
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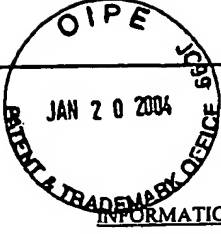
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	4	Chaillet, J.R., <i>et al.</i> , "Parental-Specific Methylation of an Imprinted Transgene in Established during Gametogenesis and Progressively Changes during Embryogenesis," <i>Cell</i> 66:77-83, Cell Press (1991)
	AS	4	Chen, T., <i>et al.</i> , "A Novel Dnmt3a Isoform Produced from an Alternative Promoter Localizes to Euchromatin and Its Expression Correlates with Active <i>de Novo</i> Methylation," <i>J. Biol. Chem.</i> 277:38746-38754, The American Society for Biochemistry and Molecular Biology, Inc. (October 2002)
	AT	4	Cheng, X., "Structure and function of DNA methyltransferases," <i>Annu. Rev. Biophys. Biomol. Struct.</i> 24:293-318, Annual Reviews, Inc. (1995)

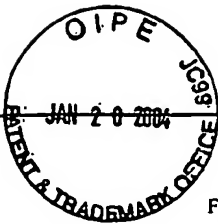
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 <p>JAN 20 2004</p> <p>FORM PTO-1449</p> <p>INFORMATION DISCLOSURE STATEMENT</p>	ATTY. DOCKET NO. 0609.4560003/JAG/KRM/DJN	APPLICATION NO. 10/623,813
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	AR	§	Finnegan, E.J., and Dennis, E.S., "Isolation and identification by sequence homology of a putative cytosine methyltransferase from <i>Arabidopsis thaliana</i> ," <i>Nucl. Acids Res.</i> 21:2383-2388, Oxford University Press (1993)				
	AS	§	Flynn, J., <i>et al.</i> , "Murine DNA Cytosine-C ³ Methyltransferase: Pre-Steady- and Steady-State Kinetic Analysis with Regulatory DNA Sequences," <i>Biochem.</i> 35:7308-7315, American Chemical Society (1996)				
	AT	§	Flynn, J., <i>et al.</i> , "DNA Binding Discrimination of the Murine DNA Cytosine-C ³ Methyltransferase," <i>J. Mol. Biol.</i> 279:101-116, Academic Press (May 1998)				
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	AR	6	Hata, K., <i>et al.</i> , "Dnmt3L cooperates with the Dnmt3 family of de novo DNA methyltransferases to establish maternal imprints in mice," <i>Develop.</i> 129:1983-1993, Company of Biologists Ltd. (April 2002)
	AS	6	Jähner, D., and Jaenisch, R., "DNA Methylation in Early Mammalian Development," in <i>DNA Methylation. Biochemistry and Biological Significance</i> , Razin, A., eds., Springer-Verlag, New York, NY, pp. 189-219 (1984)
	AT	6	Jentsch, S., <i>et al.</i> , "DNA methyltransferases affecting the sequence 5'CCGG," <i>Nucl. Acids Res.</i> 9:2753-2759, IRL Press (1981)
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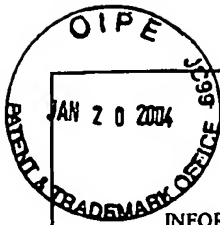
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
auth	AR	2	Jones, P.A., and Gonzalgo, M.L., "Altered DNA methylation and genome instability: A new pathway to cancer?," <i>Proc. Natl. Acad. Sci. USA</i> 94:2103-2105, National Academy of Sciences (March 1997)
↓	AS	2	Klimašauskas, S., et al., "The sequence specificity domain of cytosine-C5 methylases," <i>Nucl. Acids Res.</i> 19:6183-6190, IRL Press at Oxford University Press (1991)
↓	AT	2	Kumar, S., et al., "The DNA (cytosine-5) methyltransferases," <i>Nucl. Acids Res.</i> 22:1-10, Oxford University Press (1994)
EXAMINER	DATE CONSIDERED 10/13/2006		

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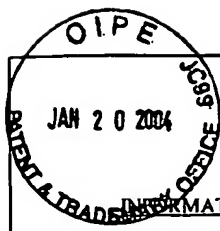
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	AP						Yes No

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amh	AR	8	Laird, P.W., and Jaenisch, R., "The Role of DNA Methylation in Cancer Genetics and Epigenetics," <i>Annu. Rev. Genet.</i> 30:441-464, Annual Reviews Inc. (1996)
↓	AS	8	Lauster, R., et al., "Cytosine-specific Type II DNA Methyltransferases. A Conserved Enzyme Core with Variable Target-recognizing Domains," <i>J. Mol. Biol.</i> 206:305-312, Academic Press Ltd. (1989)
↓	AT	8	Lazar, E., et al., "Transforming Growth Factor α : Mutation of Aspartic Acid 47 and Leucine 48 Results in Different Biological Activities," <i>Mol. Cell. Biol.</i> 8:1247-1252, American Society for Microbiology (1988)
EXAMINER	amh	DATE CONSIDERED	15/13/2006

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<i>amb</i>	AR	2	Lei, H., <i>et al.</i> , "De novo DNA cytosine methyltransferase activities in mouse embryonic stem cells," <i>Development</i> 122:3195-3205, The Company of Biologists Ltd. (1996)
<i>↓</i>	AS	2	Leonhardt, H., <i>et al.</i> , "A Targeting Sequence Directs DNA Methyltransferase to Sites of DNA Replication in Mammalian Nuclei," <i>Cell</i> 71:865-873, Cell Press (1992)
<i>↓</i>	AT	2	Li, E., <i>et al.</i> , "Targeted Mutation of the DNA Methyltransferase Gene Results in Embryonic Lethality," <i>Cell</i> 69:915-926, Cell Press (1992)
EXAMINER	<i>amb Harris</i>		
DATE CONSIDERED	01/17/2006		

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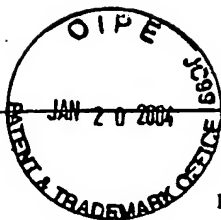
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<i>amb</i>	AR	10	Li, E., "Role of DNA methylation in mammalian development," in <i>Genomic Imprinting</i> , Reik, W., and Surani, A., eds., Oxford University Press, Oxford, UK, pp. 1-20 (December 1997)
<i>I</i>	AS	10	Malagnac, F., <i>et al.</i> , "A Gene Essential for De Novo Methylation and Development in <i>Ascombolus</i> Reveals a Novel Type of Eukaryotic DNA Methyltransferase Structure," <i>Cell</i> 91:281-290, Cell Press (October 1997)
<i>✓</i>	AT	10	Narayan, A., <i>et al.</i> , "Hypomethylation of Pericentromeric DNA in Breast Adenocarcinomas," <i>Int. J. Cancer</i> 77:833-838, Wiley-Liss, Inc. (September 1998)
EXAMINER <i>amb</i>	DATE CONSIDERED 1/13/2006		

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	AR	11	Okano, M., et al., "Dnmt2 is not required for de novo and maintenance methylation of viral DNA in embryonic stem cells," <i>Nucl. Acids Res.</i> 26:2536-2540, Oxford University Press (June 1998) DUPLICATE REFERENCE
	AS	11	Okano, M., et al., "Cloning and characterization of a family of novel mammalian DNA (cytosine-5) methyltransferases," <i>Nat. Genet.</i> 19:219-220, Nature Publishing Group (July 1998)
	AT	11	Okano, M., et al., "DNA Methyltransferases Dnmt3a and Dnmt3b Are Essential for De Novo Methylation and Mammalian Development," <i>Cell</i> 99:247-257, Cell Press (October 1999)
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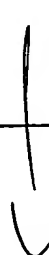

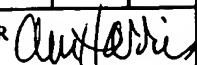
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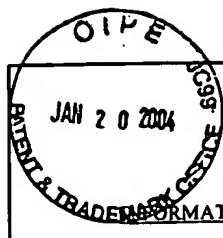
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	AR	12	Okano, M., and Li, E., "Genetic Analyses of DNA Methyltransferase Genes in Mouse Model System," <i>J. Nutr.</i> 132:2462S-2465S, American Institute of Nutrition (August 2002)
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	AT	12	Qu, G.-Z., <i>et al.</i> , "Satellite DNA hypomethylation vs. overall genomic hypomethylation in ovarian epithelial tumors of different malignant potential," <i>Mutat. Res.</i> 423:91-101, Elsevier Science (January 1999)
EXAMINER 	DATE CONSIDERED 10/13/2006		

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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

 ATTY. DOCKET NO.
0609.4560003/JAG/KRM/DJN

 APPLICATION NO.
10/623,813

 APPLICANT
Li et al.

 FILING DATE
July 22, 2003

 GROUP
To Be Assigned

1643

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	AL						Yes No
	AM						Yes No
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	AO						Yes No
	AP						Yes No

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amb	AR	13	Razin, A., and Cedar, H., "DNA methylation and embryogenesis," in <i>DNA Methylation: Molecular Biology and Biological Significance</i> , Jost, J.P., and Saluz, H.P., eds., Birkhäuser Verlag, Basel, Switzerland, pp. 343-357 (1993)				
↓	AS	13	Reid, G.K., et al., "Selective inhibition of DNA methyltransferase enzymes as a novel strategy for cancer treatment," <i>Curr. Opin. Mol. Ther.</i> 4:130-137, Current Drugs (April 2002)				
↓	AT	13	Robertson, K.D., et al., "The human DNA methyltransferases (DNMTs) 1, 3a and 3b: coordinate mRNA expression in normal tissues and overexpression in tumors," <i>Nucl. Acids Res.</i> 27:2291-2298, Oxford University Press (June 1999)				

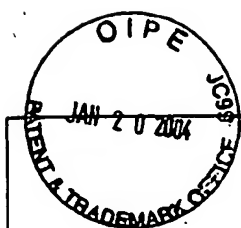
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0609.4560003/JAG/KRM/DJNAPPLICATION NO.
10/623,813APPLICANT
Li *et al.*FILING DATE
July 22, 2003GROUP
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amh	AR	14	Stöger, R., <i>et al.</i> , "Maternal-Specific Methylation of the Imprinted Mouse <i>Igf2r</i> Locus Identifies the Expressed Locus as Carrying the Imprinting Signal," <i>Cell</i> 73:61-71, Cell Press (1993)
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N	AT	14	Szyf, M., and Detich, N., "Regulation of the DNA Methylation Machinery and Its Role in Cellular Transformation," in <i>Progress in Nucleic Acid Research and Molecular Biology</i> , Moldave, K., ed., Academic Press, San Diego, CA, pp. 47-79 (August 2001)
EXAMINER amh/arris			DATE CONSIDERED 10/13/2006

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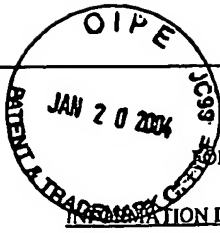
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<i>amh</i>	AR	<u>15</u>	Trasler, J.M., <i>et al.</i> , "DNA Methyltransferase in Normal and <i>Dnmt⁰/Dnmt⁰</i> Mouse Embryos," <i>Dev. Dyn.</i> 206:239-247, Wiley-Liss, Inc. (1996)
<i>↓</i>	AS	<u>15</u>	Tremblay, K.D., <i>et al.</i> , "A paternal-specific methylation imprint marks the alleles of the mouse <i>H19</i> gene," <i>Nat. Genet.</i> 9:407-413, Nature Publishing Group (1995)
<i>↓</i>	AT	<u>15</u>	Tucker, K.L., <i>et al.</i> , "Germ-line passage is required for establishment of methylation and expression patterns of imprinted but not of nonimprinted genes," <i>Genes & Develop.</i> 10:1008-1020, Cold Spring Harbor Laboratory Press (1996)
EXAMINER <i>ant Harris</i>	DATE CONSIDERED <i>10/13/2006</i>		




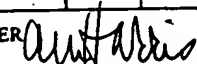
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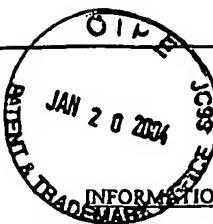
FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0609.4560003/JAG/KRM/DJN	APPLICATION NO. 10/623,813
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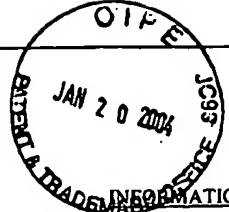
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	AR	16	Xie, S., <i>et al.</i> , "Cloning, expression and chromosome locations of the human <i>DNMT3</i> gene family," <i>Gene</i> 236:87-95, Elsevier Science B.V. (August 1999)
	AS	16	Yen, R.-W. C., <i>et al.</i> , "Isolation and Characterization of the cDNA encoding human DNA methyltransferase," <i>Nucl. Acids Res.</i> 20:2287-2291, Oxford University Press (1992)
	AT	16	Yoder, J.A., and Bestor, T.H., "A candidate mammalian DNA methyltransferase related to pmt1p of fission yeast," <i>Hum. Mol. Genet.</i> 7:279-284, Oxford University Press (February 1998)
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anh	AR	17	Zuccotti, M., and Monk, M., "Methylation of the mouse <i>Xist</i> gene in sperm and eggs correlates with imprinted <i>Xist</i> expression and paternal X-inactivation," <i>Nat. Genet.</i> 9:316-320, Nature Publishing Group (1995)				
↓	AS	17	International Search Report for International Application No. PCT/US99/14373, mailed December 10, 1999, European Patent Office, Netherlands				
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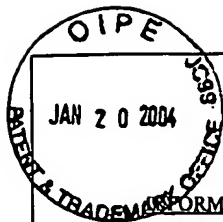
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<i>amb</i>	AR	18	GenCore database. Sequence alignment between SEQ ID NO: 2 and Accession number AF067972 of Xie <i>et al.</i> Gene 236(1): 87-95, 1999, 3 sheets
<i>J</i>	AS	18	GenCore database. Sequence alignment between SEQ ID NO: 2 and Accession number AF068626 and AF068627 of Okano <i>et al.</i> Nat. Genet. 19(3): 219 and 220, 1998, 8 sheets
<i>U</i>	AT	18	GenCore nucleic acid and amino acid database. Sequence comparison between accession number AF067972 from Gene 1999 paper and Applicants' SEQ ID NO: 7 and 8, February 12, 2001
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amh	AR	19	GenCore nucleic acid database. Sequence comparison between accession number AAT21884 from WO document 9514772-A1 and Applicants' SEQ ID NO: 1 and 3, June 1, 1995
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